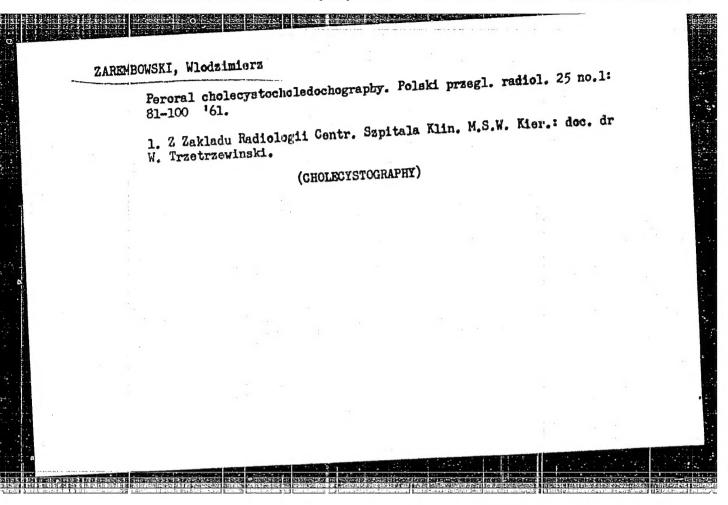
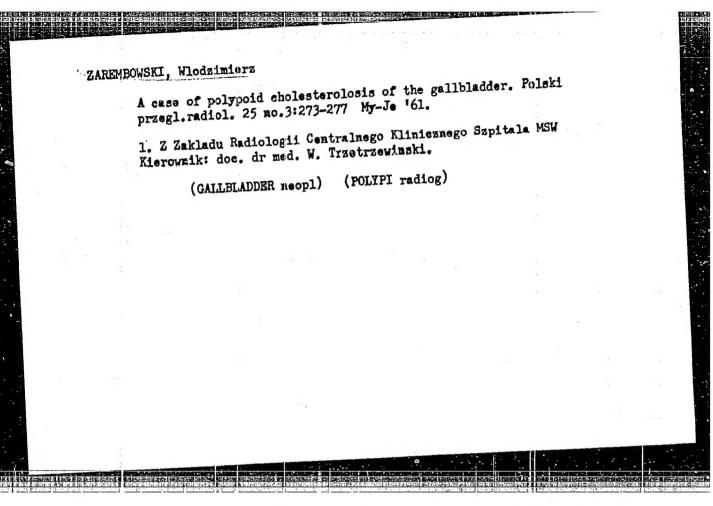
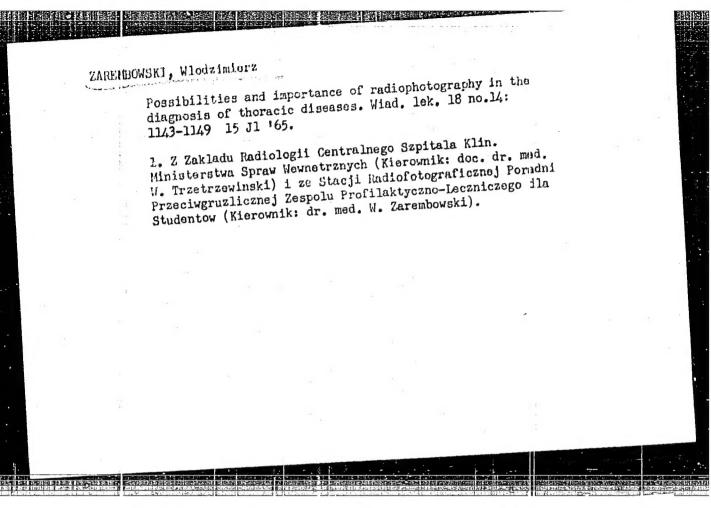
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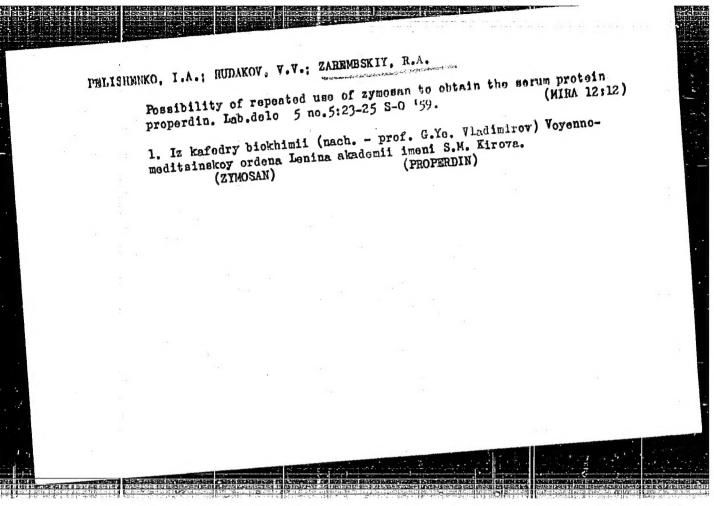




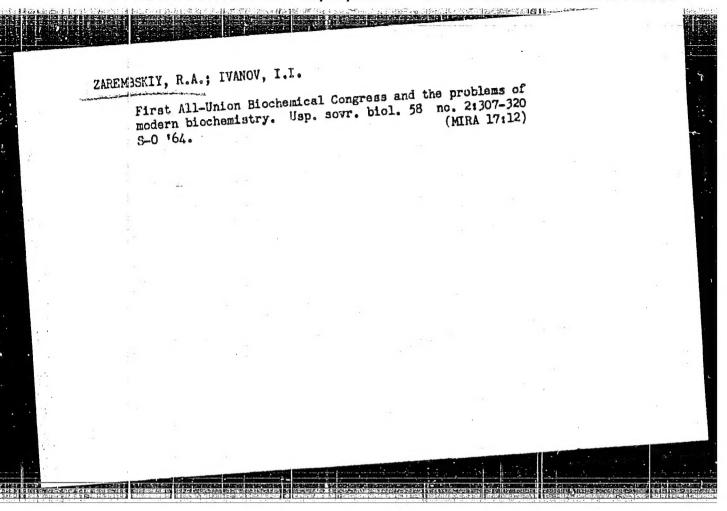
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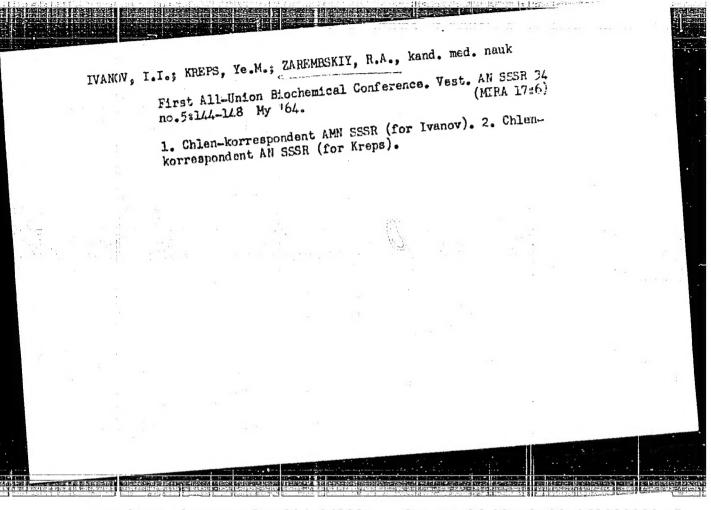


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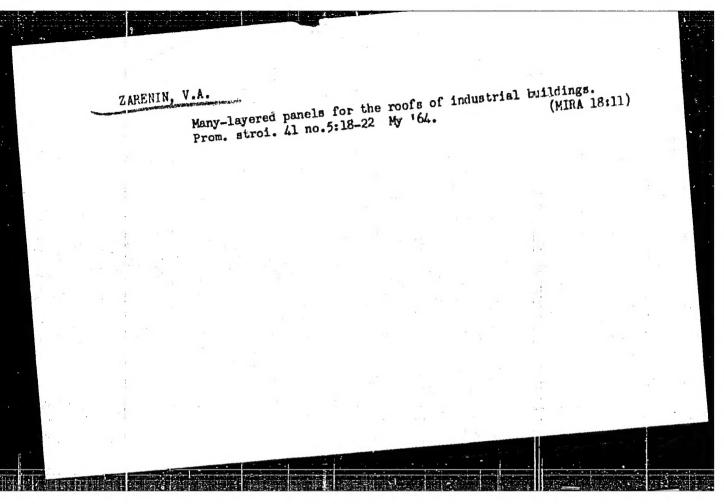
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8/187/60/000/006/001/001 A189/A026

6.3000 (1051,1106, 1138) Zarenin, Yu. G.

AUTHOR:

Feedback as a Method of Correcting the Frequency Character-

istics of Electromechanical Light Modulators

TITLE:

Tekhnika kino i televideniya, 1960, No. 6, pp. 33-44 PERIODICAL:

The author analyzes the frequency characteristic of electromechanical light modulators and suggests the use of a feedback method as described by G. V. Braude (Ref. 3). The linear channel of the electromechanical light modulator may be represented by the differential equation:

 $\left\{ \text{Lmp3} + \left[\text{Lr} + (R_i + R)^m \right] p^2 + \left[(R_i + R)^r + \text{LS} + M^2 \right] p + (R_i + R) \cdot S \right\} x = M \cdot e(1)$

where: p - differential operator; x - displacement of the mechanical system; s - electromotive force of the power source; m - electromechanical coupling factor; L - inductance of the galvanometer electric circuit; R effective resistance of the galvanometer electric circuit; in - mass of the galvarometer moving system; r - friction of the galvanometer moving system;

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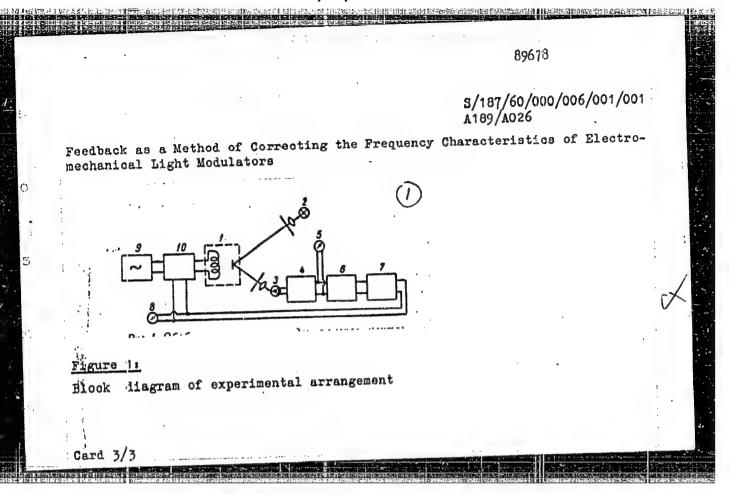
Feedback as a Method of Correcting the Frequency Characteristics of Electromechanical Light Modulators

S - elasticity of the galvanometer moving system; and R_i - internal resistance of the power source. Starting with this equation, the author proves the theoretical possibility of applying feedback to control the frequency characteristic of the system. Experimental investigations were conducted with a model, shown in Figure 1, and with a 4A-1 (4D-1) mirror galvanometer with a model, shown in Figure 1, and with a 4A-1 (4D-1) mirror galvanometer produced by the Zavod "Lenkinap" ("Lenkinap" Plant). The model consists of produced by the Zavod "Lenkinap" ("Lenkinap" plant). The model consists of produced by the Zavod "Lenkinap" ("In measuring the amplitude of output ture, (4) preamplifier, (5) instrument for measuring the amplitude of output signal, (6) feedback signal-shaping unit, (7) output amplifier, (8) instrument for measuring the depth of feedback, (9) audio-frequency generator, ment for measuring the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct and (10) unit pro

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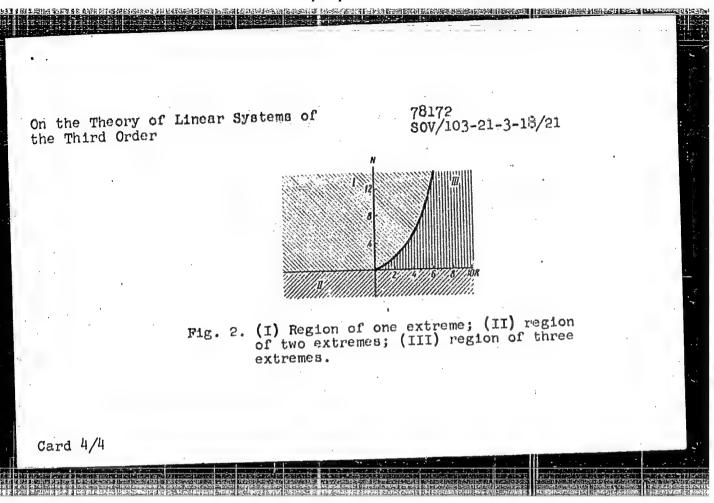
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UTHOR:	On the Theory of Linear Systems of the Third Order
ITLE:	On the Theory of British Avtomatika 1 telemakhanika, 1960, Vol 21, Kr 3,
PERIODICAL:	pp 417-419 (USSR)
ABSTRACT:	The paper investigates the amplitude-frequency The paper investigates the frequency Th
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	where p is a differentiation operator; (p is an instant- aneous value at the output of the system; if is the in- aneous value of the input signal; A, B, C, and D are stantaneous value of the input signal; A, B, C, and D are constant coefficients. After dividing Eq. (1) by A the new coefficients are designated a, b, c, and d, thus
	new coefficients are $(p^3+ap^3+bp+c)q = dq$. (2) obtaining:
Card 1/4	

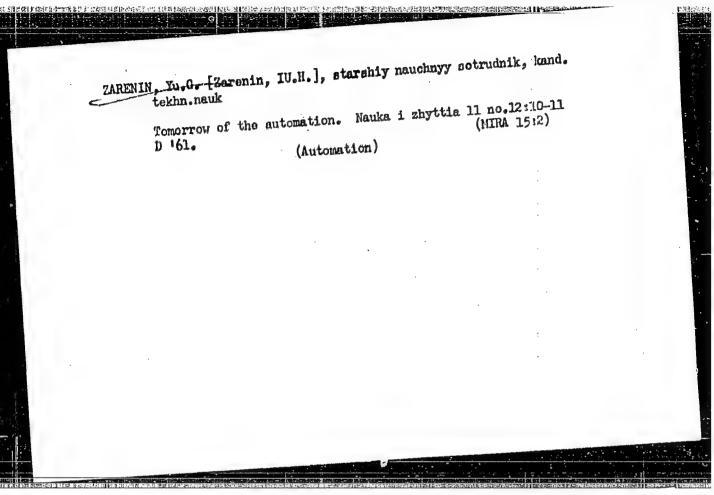
APPROVE	ED FOR RELEASE: 09/19/2001	CIA-RDP86-00513R001963820008-4
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On the Theory of the Third Order	Linear Systems of Thereby the equation of the characteristic is: $K(\omega) = \left \frac{d}{II(i\omega)} \right = \frac{1}{V(c-a\omega^2)}$ After a single differentiat.	$\frac{d}{\tilde{a}^2 + (b\omega - \omega^2)^2},$ $\frac{d}{a^2 + (b\omega - \omega^2)^2}$
	the root signations: ducing designations: $b^2 - 2ac = N - 2b$. the polynomium:	$-a^2 = R, \tag{4}$ $\forall \omega = 0, \tag{5}$
	is obtained, the roots of $v_{\omega_1=0, \omega_{3,3,4,8}=\pm \frac{1}{\sqrt{3}}$	which are: $\sqrt{R \pm V R^2 - 3N}.$ (ii)
Card 2/4	It is shown that in according frequency characteristics	ance with Eq. (6) three types of are possible. This is illustrated
THE PERSON OF TH	STRUMENT SEED VERNINGS ON THE SECOND SECONDS	THE PROPERTY OF THE PROPERTY O

On the Theory of Linear Systems of 78172 soV/103-21-3-18/21 the Third Order

in Fig. 1, where the dotted lines indicate the theoretically in Fig. 1 possible but practically not applicable frequency characteristics. A diagram with N, R coordinates, shown in acteristics. A diagram with N, R coordinates, shown in Fig. 2, is convenient for the practical application of the results obtained. There are 3 figures; and 1 Soviet reference.

SUBMITTED: September 28, 1959





5/142/62/005/003/004/009 E140/E435

6.9000

Geranin, V.A., Zarenin, Yu.G., Karnsvskiy, M.I.

AUTHORS:

Redistribution of signal probabilities in systems for the transmission and processing of information

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Radiotekhnika,.

v.5, no.3, 1962, 339-346

The problem frequently arises of transforming the probability distribution of a signal in transmission or in information processing, for example in employing the Monte Carlo The authors attempt to solve the problem of specifying the transmission characteristics of a converter, given the input and output probability distributions, for which they know no A.I.Kitov and N.A.Krinitskiy (Elektronnyye

tsifrovyye mashiny i programmirovaniye (Electronic digital computers and programming), Fizmatgiz, 1959) have attempted to solve the special case where the input distribution is uniform published solution. mathematical apparatus developed in probability theory for the machematical apparatus developed in probability of continuous related problem of the functional transformation of continuous

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S/142/62/005/003/004/009 E140/E435

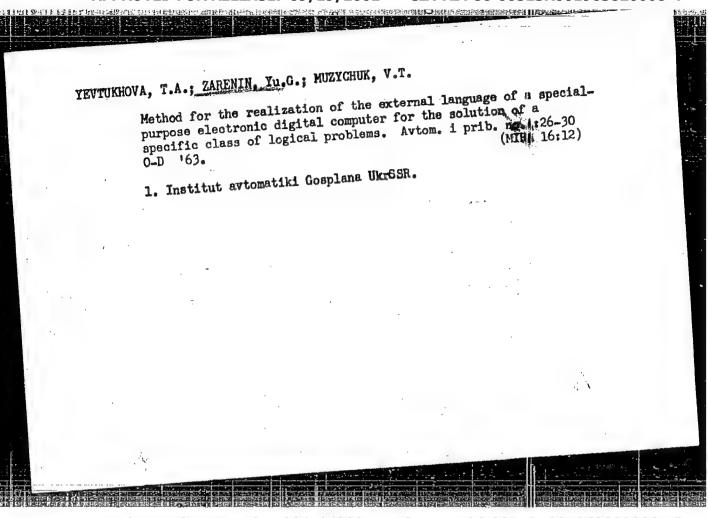
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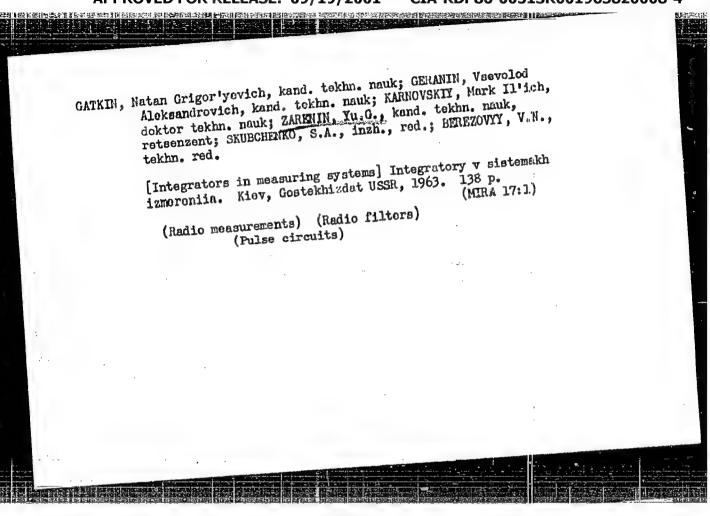
random quantities, reducing to the determination of the probability distribution of a given random function if the distribution of the argument is known. The solution of the problem is given by a differential equation. Illustrations are furnished by the transformation of "truncated normal" distribution to uniform and the roverse transformation. While the method is not directly applicable to discrete distributions, a method due to A.A.Kharkevich (Ocherki obshchey teorii svyazi (Outline of a general theory of communications), GITTL, 1955) is recommended. There are 5 figures.

ASSOCIATION: Kafedra akustiki i zvukotekhniki, Kiyevskiy ordena Lenina politekhnicheskiy institut (Acoustics and Sound Engineering Department, Kiyev Order of Lenin Polytechnical Institute)

SUBMITTED: November 10, 1960

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ZARENIN, Yu.G.; SHCHECHKIN, Ye.S., inzh., red.

[Error correcting codes for the transmission and processing of information] Korrektirulushchie kody dlia peredachi i pererabotki informatsii. Kiev, Tekhnika, 1965.

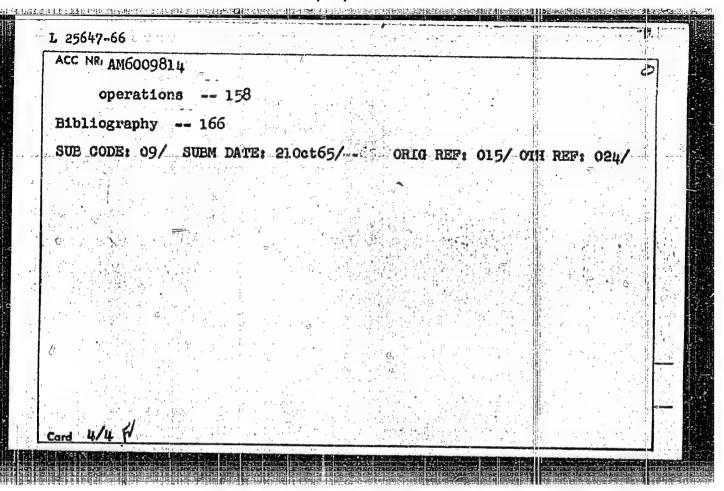
169 p. (MIRA 19:1)

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ACCESSION MR: AP5000765 S/0238/64/010/006/0815/0318

AUTHOR: Zarenina, I.L.

TITLE: The effect of television screens on some functions of the visual analyser

SOURCE: Firitelehichnyy zhurnel v. 10 rc. 8, 1004 918-819

Were conducted before and immediately after 3 hours of zelevision viewing, and involved a determination of the first than the threshold for color differentiation, after viewing a televised program, decreased. In earlier tests on accommodation, it was shown that younger persons

Cord. 1/2

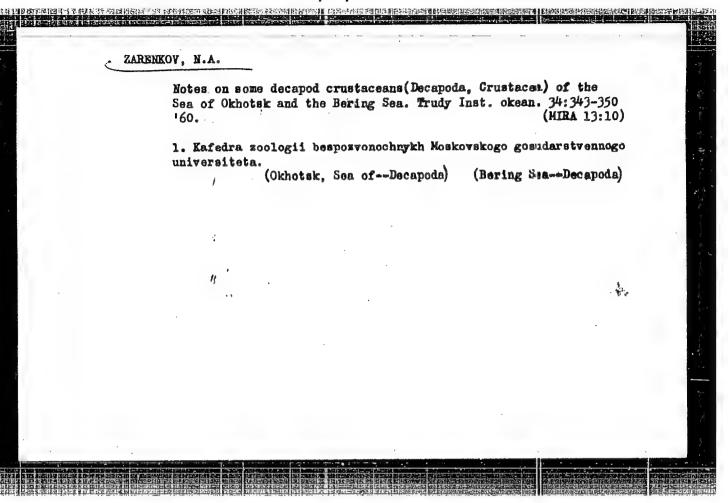
L 19157-65 ACCESSION NR: AP5000765 are subject to greater fatigue untermine the reasons for the fact her opinion that the most probal and sunlight. The data obtained ing to 6-7 hours/week, particul nervous system or eye diseases ASSOCIATION: Klinichna likara District)	or expresses evision rays ision view- v central			
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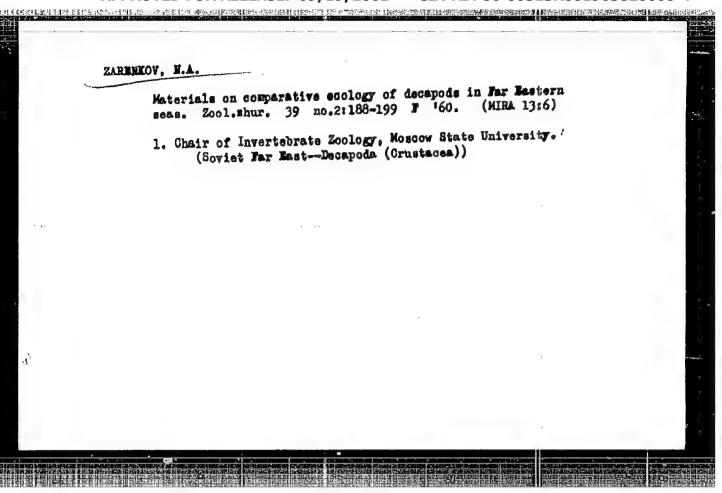
General characteristics of the quantitative distribution of plankton and benthos in the Gulf of Tonkin and the adjacent part of the South China Sea. Dokl. AN SSSR 148 no.6:1389-1391 F '63. (MIRA 16:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom D.I.,Shcherbakovym.

(Tonkin, Gulf of—Marine biology)

(South China Sea—Marine biology)





MISIYKO, V.A. [Musiiko, V.O.]; ZARETSKAYA, I.V. [Zarets'ka, I.V.]

Serum protein fractions in Brucella infections following rosmigenray irradiation. Ukr. biokhim. shur. 36 no.1:46-51 '64.

(MIRA 17:12)

1. Department of Biochemistry of the Pirogov Medical Institute, Odessa.

ZARETSKAS, G.S. [Zareckas, G.]; MATUKONIS, A.V.

Effect of twisting, tension, and time of relaxation on the changes in the torque of rayon multifilament yarns. Izv. vys. ucheb. zav.; tekk. teks. prom. no.6:18-22 '65.

(MIRA 19:1)

1. Kaunasskiy nauchno-issledovatel'skiy institut tekstil'noy promyshlennosti i Kaunasskiy politekhnicheskiy institut. Submitted August 30, 1965.

83739

s/056/60/038/004/032/048 B006/B056

24.6520 AUTHORS:

Grin', Yu. T., Drozdov, S. I., Zaretskiy, D. F.

TITLE:

The Moments of Inertia of Odd Atomic Nuclei

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 38, No. 4, pp. 1297 - 1303

TEXT: In the regions 150 < A < 190 and A > 225 the atomic nuclei are deformed and, besides single-particle levels, they have also rotational ones. It was found experimentally that the moments of inertia of odd nuclei surpassed those of even nuclei considerably. Several authors have dealt with the derivation of formulas for the moments of inertia of even and odd nuclei, without, however, taking pair correlation into account. The authors of the present paper, for the purpose of determining the moments of inertia (taking pair correlation into account), use the Green functions for a finite system having an odd number of particles. The calculation method is analogous to that used by A. B. Migdal for even-even nuclei (Refs. 3,4). An explicit formula (18) is obtained for δJ , in which the difference of the moments of inertia $J_e(\kappa_e) - J_e(\kappa_o)$

Card 1/2

The Moments of Inertia of Odd Atomic Nuclei \$/056/60/038/004/032/048
B006/B056

SUBMITTED: November 17, 1959

Card 2/2

ALEKSEYEV, Vladimir Tvanovich; ZARETSKIY, 1.3.; TYUKOVIN, I.N.;

BOGATOV I.P., retsenzent; BELOV, M.I., retsenzent;

IVANOV, K.A., retsenzent; MEYYEROVICH, M.G., retsenzent;

ORFANOV, I.K., retsenzent; "ITOV, S.M., retsenzent;

TONYAYEV, V.I., retsenzent

[Moscow-Gorkiy-Moscow; guidebook on the Moscow Canal, and the Volga, Oka, and Moscow Rivers] Moskva - Gor'kii - Moskva; cutevoditel' po kanalu imeni Moskvy, Volge, Oke i Moskve-reke. Moskva, 1zd-vo "Transport," 1964. 101 p. (MIRA 17:6)

ZARENTSKIY, P.A. [Zapats'kyi, P.A.]

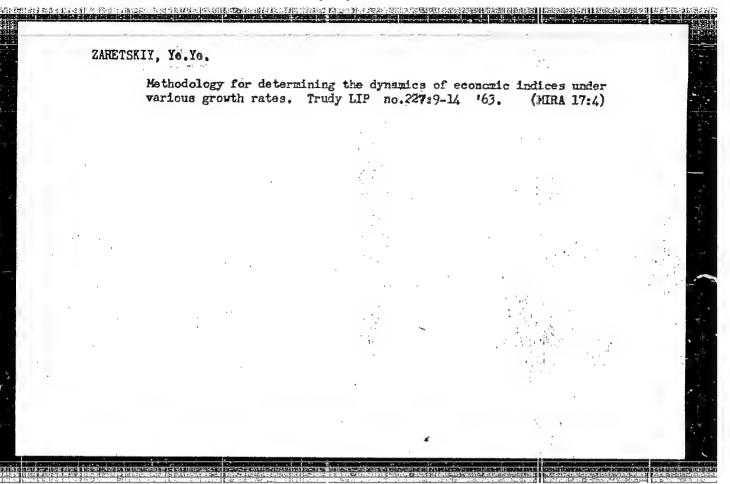
Cancer of the corpus uteri; according to materials from the Kharkov Province Oncological Dispensary (1950-1955). Ped., akush. 1 gin. 23 no.6:53-56 %1. (MIHA 15:4)

1. Ginekologicheskoye otdeleniye Kharikovskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach – zasluzhennyy vrach USSR N.G. Stanislavskaya [Stanislavs'ka, N.H.].

(UTERUS-CANCER)

DYATLOVA, V.N.; ZARETSKIY, Ye.N., kand. tekhn. nauk, rotsenzent;
KUHAREV, V.I., inzh., red.

[Corrosion resistance of metals and alloys; a handbook]
Korrozionnaia stoikost' metallov i splavov; spravochnik.
Izd.2., perer. i dop. Moskva, Izd-vo "Mashinostroenie,"
1964. 350 p. (MIRA 17:6)



ACCESSION NR: APholh377

s/0300/64/036/001/0046/0051

AUTHOR: Musiyko, V. O.; Zarets'ka, I. V.

TITLE: Protein fractions of blood serum on infection with the causative factor of brucellosis and irradiation with I-rays

SOURCE: Ukrayins kywy biokhimichnywy zhurnal, v. 36, no. 1, 1964, 46-51

TOPIC TAGS: irradiation, blood serum, brucellosis, X-ray, alpha sub 1 globulin, alpha sub 2 globulin, electrophoresis, albuminemia, gamma globulin, immunization, brucellosis vaccine

ABSTRACT: The changes in the protein fractions of the blood serum of guinea pigs infected with Br. abortus bovis and subjected to irradiation with X-rays in a dose of 200 r were subjected to an electrophoretic investigation. Infection with brucellosis produced a considerable decrease in the albumin content of the blood serum. Albumineamia also resulted in animals irradiated before or after infection. Infection of the animals or infection preceded or followed by irradiation produced a reduction in the amount of α_1 -globulins and an increase

Card 1/2

ACCESSION NR: APLO14377

in the amount of α_2 -globulins. The γ -globulin content increased in the blood serum of animals irradiated before or after infection. The increase in the level of γ -globulins was enhanced by immunization of guinea pigs with live brucellosis vaccine 2 days before irradiation and 30 days before infection with brucellosis. The rate of survival of infected animals after irradiation was increased by immunization. The results obtained are of interest, because irradiation as such, in the absence of infection, reduces the level of γ -globulins in the blood serum. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Kafedra Biokhimii Odesskogo Meditsinskogo Instituta imuni Pirogova (Chair of Biochemistry, Odessa Medical Institute)

SUEMITTED: 22Mar63"

DATE ACQ: lhFeb6h

ENCL: 00

SUB CODE: BC, NS

NO REF SOV: 005

OTHER: COO

Card 2/2

ZARETSKAS, G.S. [Zareckas, G.]

Type SD-4 instrument for determining the torsion characteristics of textile fibers. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.2: 23-27 '65. (MIRA 18:5)

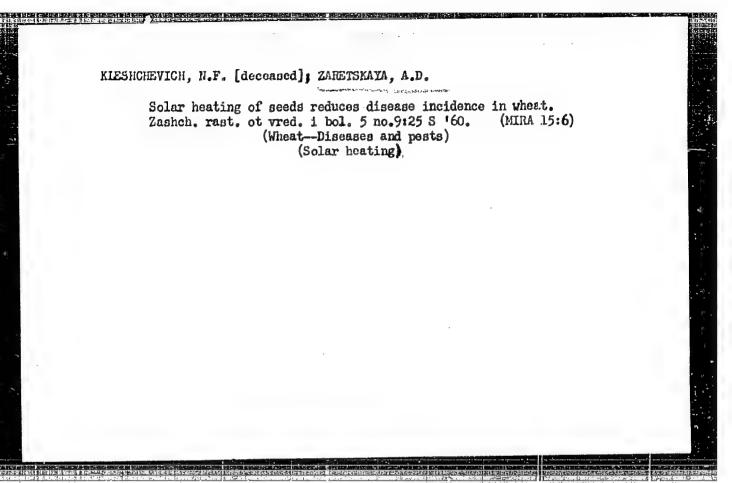
1. Kaumasskiy nauchno-issledovatel'skiy institut tekstil'noy promyshlennosti.

BUDRIS, A.Ye.; ZARETSKAS, V.S., inzh.

New method of testing the supporting surface of fabrics. Tekst.prom. 21 no.5:77-79 My '61. (MIRA 15:1)

1. Zaveduyushchiy laboratoriyey voloknistykh materialov Instituta energetiki i elektrotekhniki AN Litovskoy SSR (for Budris).

(Textile fabrics--Testing)



VOLODARSKIY, R.F.; ARONOV, V.I.; D'YAKONOV, Ye.G.; SHIRIKOV, V.P.;
FEDYNSKIY, V.V., doktor fiz.-mat. nauk, prof., red.;
ZARETSKAYA, A.I., ved. red.; BASHMAKOV, G.M., tekhn. red.

[Use of electronic calculating machines to interpret gravity and magnetic fields]Primenenic elektronno-schetnykh machin dlia interpretatisti gravitatsionnykh i magnitnykh polei. Pod red.
V.V.Fedynskogo. Moskva, Gostoptekhizdat, 1962. 74 p.

(Electronic calculating machines) (Gravity)

(Magnetic anomalies)

EROD, Ignatiy Osipovich; VYSOTSKIY, I.V., red.; LEVINSON, V.G., red.; ZARETSKAYA, A.I., ved. red.

[Fundamentals in the study of oil- and gas-bearing basins]
Osnovy uchemina o neftogazonosnykh basseinakh. Moskva, Izdvo "Nedra," 1904. 58 p.

(MIRA 17:5)

IVANOVA, Z.P., red.; ZARETSKAYA, A.I., vod. red.; POLOSINA, A.B., tekhn. red.

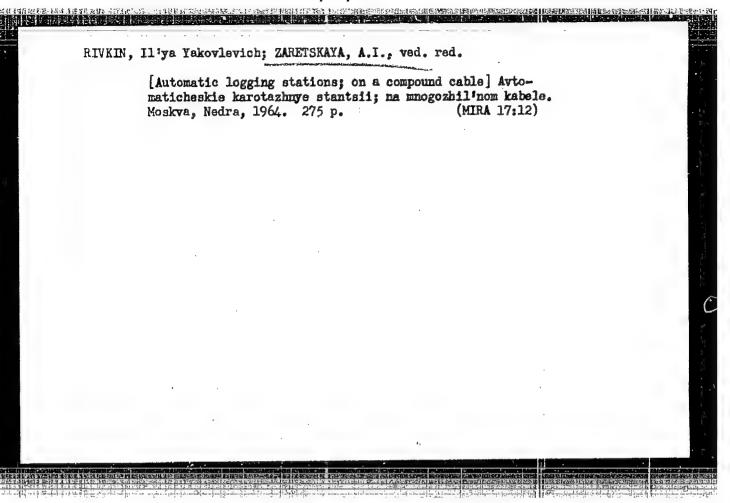
[Stratigraphic scale of Paleozoic sediments; transactions] Stratigraficheskie skhemy paleozoiskikh otlozhenii; trudy. Eodevon. Pod red. Z.P.Ivanovoi. Moskva, Gostoptekhizdat, 1962. 132 p.

(MIHA 15:6)

1. Soveshchaniye po utochneniyu unifitsirovannykh stratigraficheskikh skhem paleozoya Volgo-Ural'skoy neftegazonosnoy provintsii, Moscow, 1960.

(MIRA 15:6)

(Geology, Stratigraphic)



ISKANDEROV, Mamed Abdul ogly; MIRCHINK, M.F., red.; ZARETSKAYA,
A.I., ved. red.; STAROSTINA, L.D., tekhn. red.

[Efficient development of gas-condensate fields; based on an analysis of the development of gas-condensate oil fields of the Apsheron Peninsula, Ratsional naia razrabotka gazokondensatnykh mestorozhdenii; na opyte analiza rasrabotki gazokondensatnykh i gazokondensatno-meftianykh mestorozhdenii
Apsheronskogo poluostrova. Moskva, Gostoptekhizdat, 1963. 58 p.

(MIRA 16:10)

1. Chlen-korrespondent AN SSSR (for Mirchink).

(Apsheron Peninsula-Condensate oil wells)

KOMAROV, Sergey Grigor'yevich; MUKHER, A.A., retsenzent; YUNGENS, S.M., ved. red.; ZARETSKAYA, A.I., ved. red.; POLOSINA, A.S., tekhn. red.

[Geophysical methods for well surveying] Geofizicheskie metody issledovaniia skvazhin. Moskva, Gostoptekhizdat, 1963. 407 p. (MIRA 17:1)

1. Glavnyy spetsialist Upravleniya geofizicheskikh rabot Glavnogo upravleniya geologii i okhrany nedr pri Sovete Ministrov RSFSR (for Mukher).

IL'INA, Agniya Petrovna; ZAREISKAYA, A.I., vedushchiy red.; POLOSINA, A.S., tekhn. red.

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[Neogene mollusks in Kamchatka] Molliuski neogena Kamchatki. Moskva, Gostoptekhizdat, 1963. 241 p. (Leningrad, Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.202). (MIRA 16:6)

(Kamchatka-Mollusks, Fossil)

ROZANOV, Leonid Nikolayevich; OVANESOV, Gurgen Pavlovich; AKSEMOV, Adol'f Alekseyevich; NADEZHDIN, Aleksandr Danilovich; ZARETSKAYA, A.I., ved. red.; DUBROVSKAYA, L., tekhn. red.

[Method for rating producible and prospective reserves of oil and gas in platform areas as exemplified by the studies carried out in the Bashkir A.S.S.R.] Metodika otsenki perspektivnykh i prognoznykh zapasov nefti i gaza platformennykh oblastei (na primere Bashkirskoi ASSR), Moskva, Gostoptekhizdat, 1963. 81 p. (MIRA 16:11)

(Bashkiria-Petroleum geology) (Bashkiria-Gas, Natural-Geology)

VENDEL'SHTEYN, Boris Yur'yovich; LARIONOV, Vyacheslav Vasil'yovich;
DAKHNOV, V.N., prof.; ZARETSKAYA, A.I., ved. red.

[Using the data of field geophysics in estimating gas and oil reserves] Ispol'zovanic damykh promyslovoi goofiziki pri podechete zapanov nofti i gaza; metodichoskoe rukovodstvo. Moskva, Izd-vo "Nedra," 1964. 197 p.

(MIRA 17:6)

FADEYEV, Mikhail Ivanovich; ZARETSKAYA, A.I., ved. red.; YAKOVLEVA,
Z.I., tekhm. red.

[Orekhovka key well (Kuybyshev Province)] Orekhovskaia opornaia skvazhina; Kuibyshevskaia oblast'. Moskva, Gostoptekhizdat, 1963, 90 p.

(MIRA 16:7)

(Kuybyshev Province--Petroleum geology)

BELOVA, M.B.; VASIL'YEV, V.G.; VLASOV, G.M.; GRYAZNOV, L.P.; DRABKIN,
I.Ye.; ZHEGALOV, Yu.V.; KARBIYNICHIY, I.N.; KLENOV, Ye.P.; KRYLOV, V.V.; TITOV, V.A.; ZARETSKAYA, A.I., vedushchiy red.; YEDOTOVA, I.G., tekhn. red.

[Geology and oil and gas potentials of Kamchatka] Geologicheskoe
stroenie i perspektivy neftegazonosnosti Kamchatki. Moskva, Gos.
nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 343 p.

(Kamchatka—Petroleum geology)

(Kamchatka—Potroleum-Geology)

FEDYNSKIY, V.V., doktor fiziko-matom. nauk, red.; LEVINSON, V.G., kend. geol.-mineral. nauk, red.; TOPCHIYEV, A.V., akad. NAGIYEV, M.F., akad,, red.; SHUYKIN, N.I., red.; MIRCHINK, M.F., red.; TREBIN, F.A., doktor tekhn. mauk, red.; SANIN, P.I., doktor khim. nauk; SUKHANOV, V.P., inzh., red.; PANOV, V.V., kand. tekhn. nauk, red.; IONEL', A.G., vedushchiy red.; ZARETSKAYA, A.I., vedushchiy red.; FEDOTOVA, I.G., tekhn. red.

[Reports of the International Petroleum Congress. 5th New York, 1959] Doklady V Mezhdunarodnogo neftianogo kongressa, New York, 1959. Moskva, Gos. nauchno-tekhm. izd-vo neft. i gorno-teplivnoi lit-ry. Vol.1. [Geology and geophysics] Geologiia i geofizika. Pod red. V.V. Fedynskogo i V.G.Levinsona. 1961. 382 p. (MIRA 14:9)

1. International Petroleum Congress. 5th, New York, 1959. 2. AN Azer-baydzhanskoy SSR (for Nagiyev). 3. Chleny-korrespondenty AN SSSR (for Shuykin, Mirchink).

(Petroleum geology) (Gas, Natural—Geology) (Prospecting—Geophysical methods)

VASIL'YEV, V.G., red.; ZARETSKAYA, A.I., vedushchiy red.; MUKHINA, B.A., tekhn. red.

[Geophysical prospecting in studying the geology of Eastern Siberia; articles on gephysical investigations] Geofizicheskie raboty pri reshenii geologicheskikh zadach v Vostochnoi Sibiri; shornik statei po geofizicheskim issledovaniiam. Pod red. V.G. Vasilieva.

Moskva, Gos.nauchno-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry, 1961.

230 p. (MIRA 14:6)

1. Russia(1917- R.S.F.S.R.)Glavnoye geologicheskoye upravleniye. (Siberia, Eastern-Prospecting-Geophysical methods)

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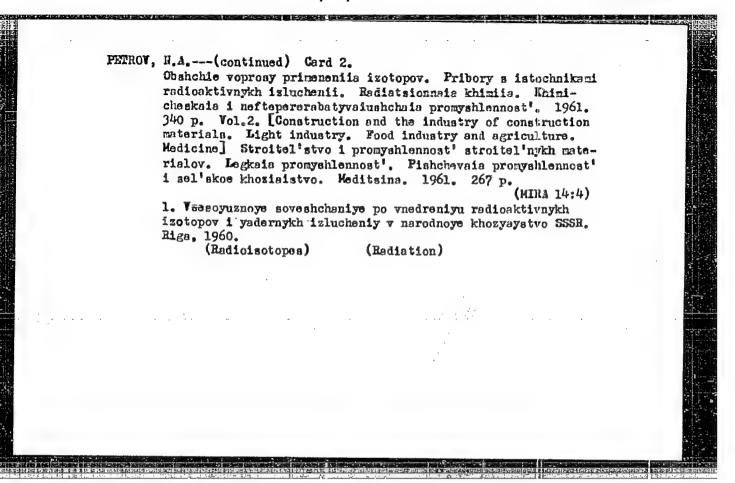
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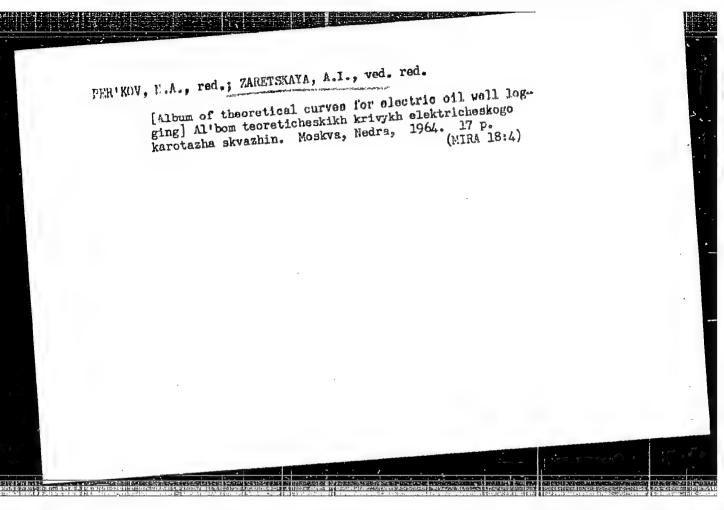
PETROV, N.A., red.; PETRENKO, L.I., red.; SAVITSKIY, P.S., red.; SINITSIN, V.I., red.; KOLOTYRKIN, Ya.M., red.; SYRKUS, N.P., red.; ROHM, R.F., red.; AMTYSHEV, P.I.; red.; VARTAZAROV, S.Ya., red.; ZEDGINIDZE, G.A., red.; MARTYNKIN, F.F., red.; ROGACHEV, V.I., red.; SLATINSKIY, A.N., red.; LEVINA, Ye.S., vedushchiy red.; TITSKAYA, B.F., vedushchiy red.; PERSHINA, Ye.G., vedushchiy red.; LOHEL, A.G., vedushchiy red.; LOHEL, A.G., tekhn.red.

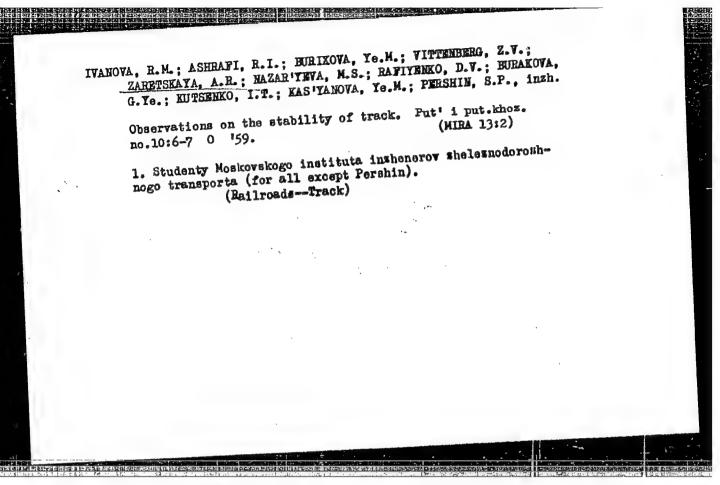
[Transactions of the Conference on the Introduction of Radioactive Isotopes and Nuclear Radiation into the National Economy of the U.S.S.R.] Trudy Vsesciuznogo soveshchania po vnedreniu radioaktivnykh izotopov i isdernykh izluchenii v narodnoe khozialstvo SSSR. Pod red. N.A.Petrova, L.I.Petrenko i P.S.Savitskogo.

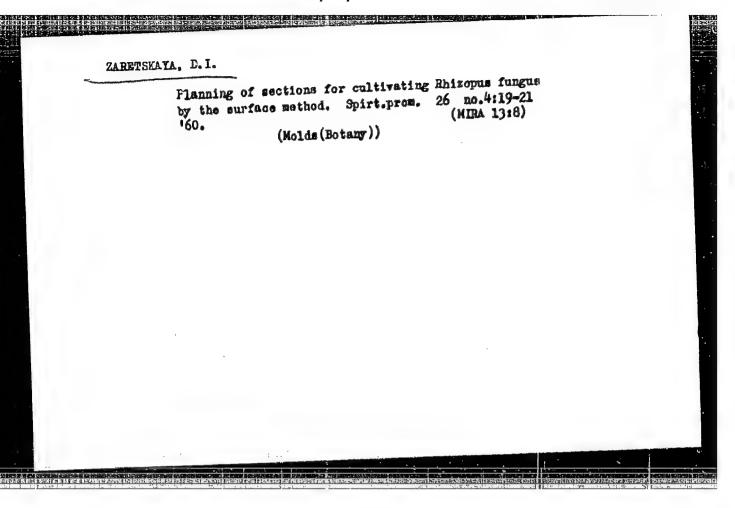
Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry.
Vol.1. [General aspects of isotope applications. Instruments with sources of radioactive radiation. Radiation chemistry.
Chemical and petroleum refining industry]

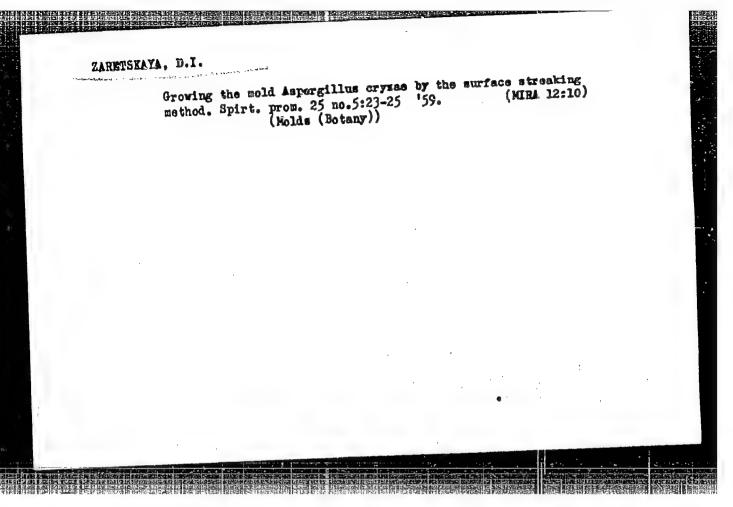
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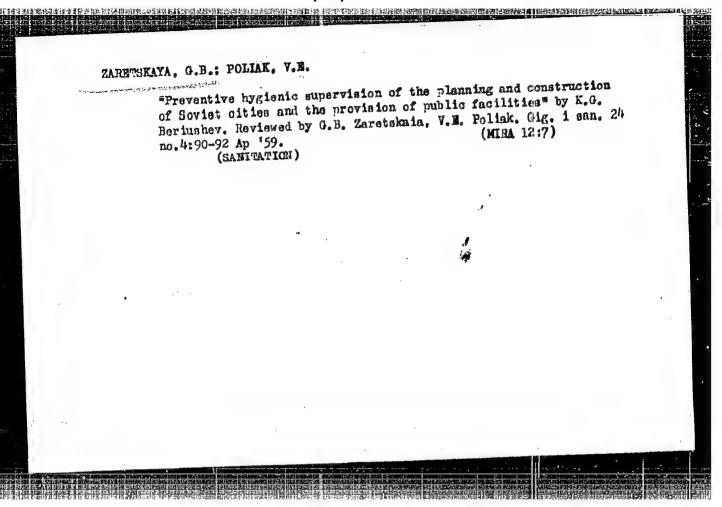












ZARETSKAYA, G.M. (Leningrad); MEL'NICHEKO, A.A. (Leningrad); FILONENKO,
N.G. (Leningrad)

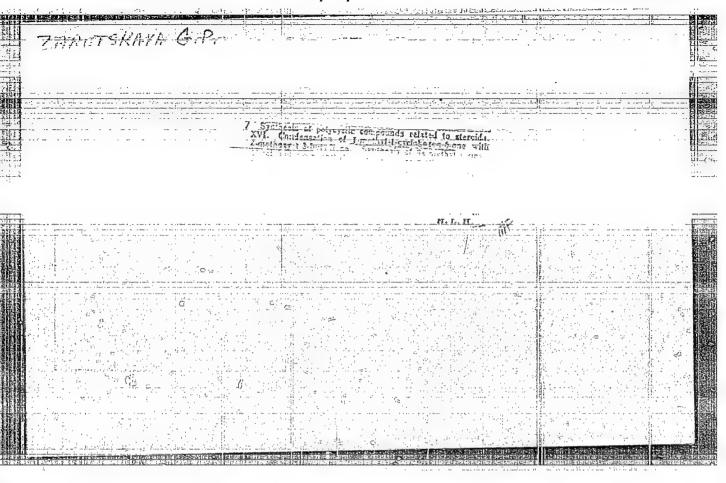
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of iron-silicon-chronium alloys. Izv. AN SSSR. Met. i gor.
delo no.4:58-62 Jl-Ag '64.

(MIRA 17:9)

FILONENKO, N.Ye.; ZARETSKAYA, G.M.

Silicon carbide and ferrosilicochrome. Zhur. prikl. khit. 38 no.4:
941-942 Ap '65.

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shlifovaniya.



Mor., Acetylene Leb., Inst. Organic Chemistry, De.t. Chem. Sci., Acad. Sci., -1940-c49-.

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Iz. Ak. Nauk SSSR, Otdel, Khim. Nauk, No. 3, 1940;

"....XVII. Hydration of Hydrocarbons of the Divinylacetylene Series," ibid.,

No. 1, 1941;

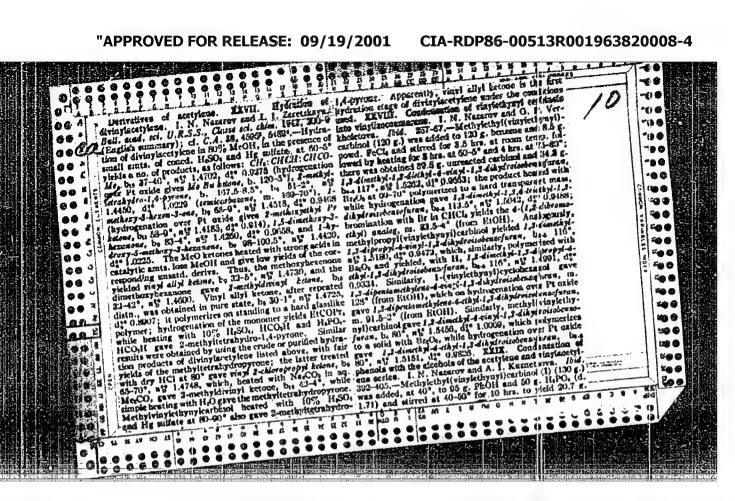
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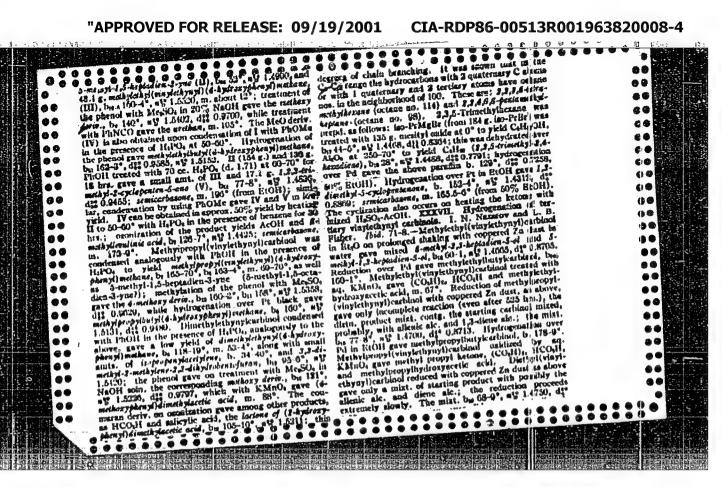
"....XXVII. On the Mechanism of Cyclohydration of Hydrocarbons of Divinylacetylene
Series. Cyclization of Allyl Isopropenyl Ketone to 1,3-Dimethylcyclopentene-1One-5," ibid., No. 1, 1944;

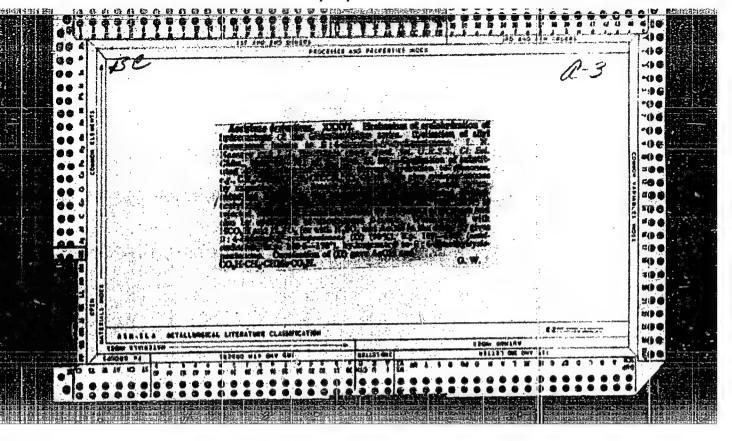
"....XLVIII. The Mechanism of Hydration and Cyclization of 5-Methyl-1, 5

Heptadicne-3-ine," ibid., No. 5, 1946;

CIA-RDP86-00513R001963820008-4







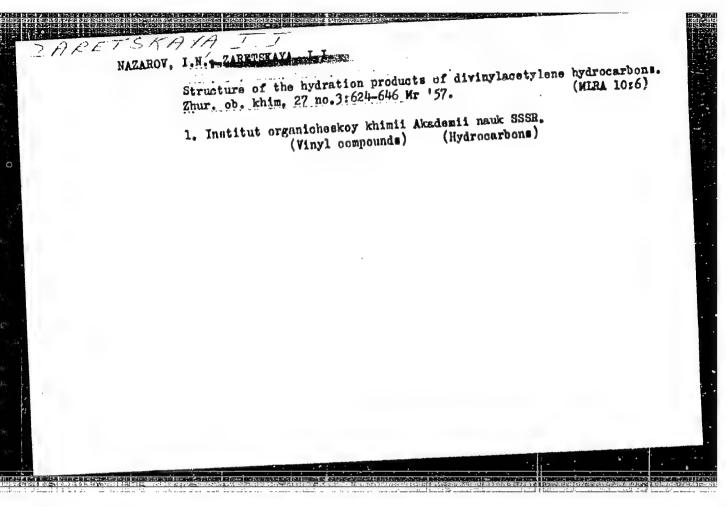
NAZAROV, I.N.; KAZITSYNA, L.A. ZABTSKAYA, I.I.

Absorption spectrum analysis of 2,4-dimitrophenylhydrazones of carbonyl compounds. Zhur. ob. khim. 27 no.3:606-623 Mr '57. (MLRA 10:6)

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ZARETSKAYA, I. I.

USSR/Chemistry - Acetylene, Derivatives Chemistry - Olefins, Hydration of Apr 48

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5-Methyl-1, 5-octadiene-3-in and 5-ethyl-1, 5-heptadiene-3-in are readily hydrated inaqueous solutions of methanol in the presence of sulfuric acid and mercury sulfate, forming 5-methyl-1, 5-octadiene-h-on and 5-ethyl-1, 5-heptadiene-h-on. Both of these are readily cyclized by phospheric or hydrochloric acid at 60 - 65°, forming the corresponding cyclopentanones. The latter can also be prepared directly from dienins by cyclohydration. Submitted 7 Apr 19h7.

PA 8/19 T40

ZARETSKAYA, I. I.

"Hydration of Hydrocarbons of the Divinyl-Acetylene Series and Cyclization of Vinyl Allylketones Into Cyclopentenenes."

Thesis for degree of Cand. Chemical Sci. Sub. 28 Apr 49, Inst of Organic Chemistry, Acad Sci, USSR

Summary 82, 18 Dec 52, <u>Dissortations Presented For Decrees in Science and Engineering in Moscow in 1949</u>. From <u>Vechernyaya Moskya</u>, Jan-Dec 1949.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820008-4

ZARETSKAYA, I. I.

USSR/Chemistry-Acetylene, Derivatives Chemistry-Hydration

Mar/Apr 49

"Acetylene Derivatives: No 87, Mechanism of Diene Hydration and Cylization, XVII, H ydration and Cyclization of 5-Propyl-1, 5-Octadione-3-Ine, "XVII, H ydration and Cyclization of 5-Propyl-1, 5-Octadione-3-Ine, "XVIII, H ydration and Cyclization and Cy

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 2

Describes hydration of 5-propyl-1, 5-octadiene-3-ine into 5-propyl-1, 5-octadiene-4-on and cyclization of this dienome into 3-methyl-2-ethyl-1-propyl-1-cyclopentene-5-on. Submitted 20 Mar 48.

PA 43/49T10

CIA-RDP86-00513R001963820008-4" APPROVED FOR RELEASE: 09/19/2001

ZARETSKAYA, I. I.

USSR/Chemistry-Acetylene, Derivatives Chemistry-Hydration

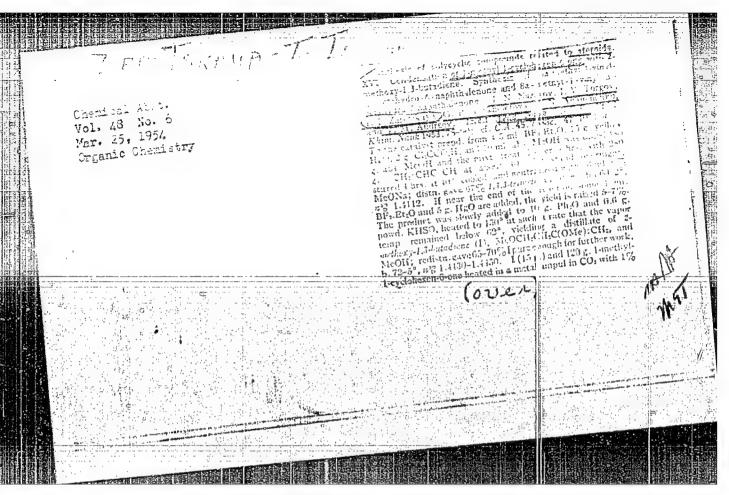
Mar/Apr 49

"Acetylene Derivatives: No 38, Mechanism of Diene Hydration and Cyclization, XVII, H ydration and Cyclization of 5-Methyl-1, 5-tetradecadiene-3-Ine," I. N. Nazarov, I. I. Zaretskaya, Inst of Org Chem, Acad Sci USSR, 6 pp

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 2

Describes hydration of 5-methyl-1, 5-tetradecadiene-3-ine into 5-methyl-1, 5-tetradecadiene-4-on and cyclizes the latter into 1,3-dimethyl-2-octyl-1-cyclopentene-5-on. Submitted 20 Mar 48.

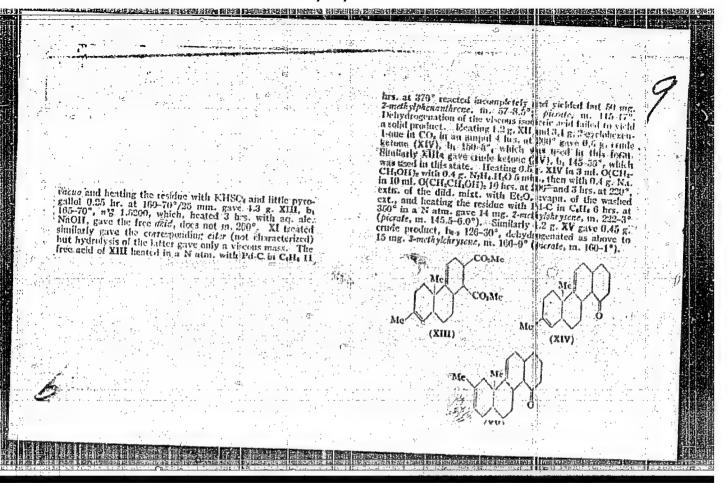
PA 43/49T9

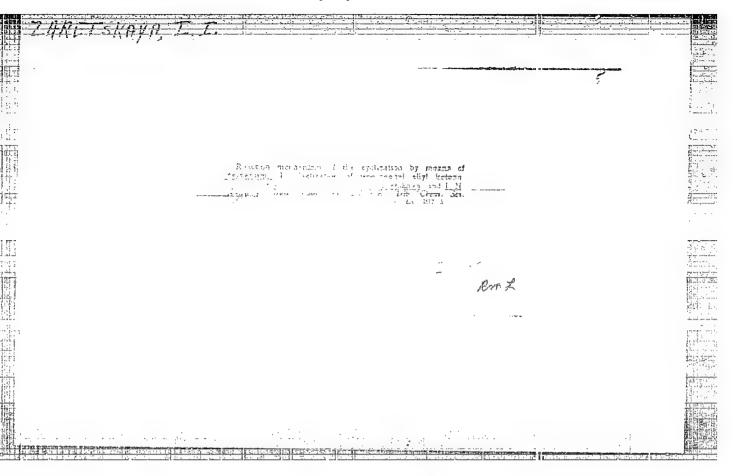


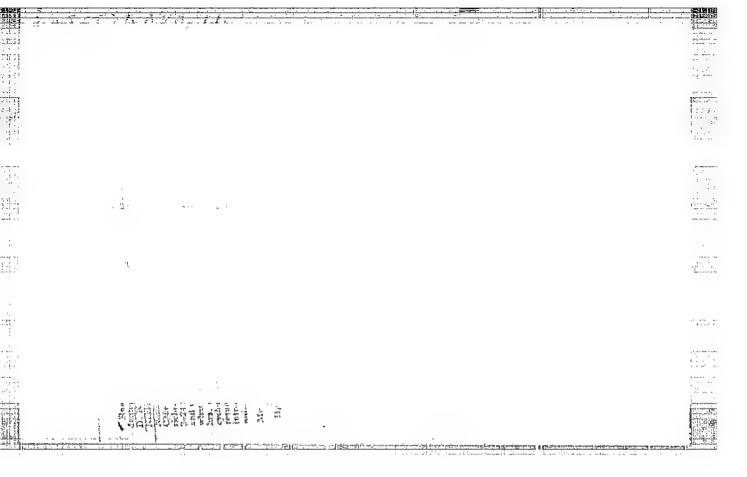
PhNEt, 2.5 hrs. at 200-70° yielded after repeated distr. 44%, mixed Ra-methyl-I-methoxy-A*-ectahydra-l-nghhiatennee (II), bi 92-6°. IA semicorbatone (provisionally characterized), m. 208-9.5°. Hydrogenation of mixed IA-II over Pd in dioceme gave Sa-methyl-I-methoxydeahydro-I-mathladennee, m. 109-202° (decompa.). To 7 g. Na in 300 ml. liquid Nitiwa lidded over 2 hrs. C/H, at 20 I./hr., then 10.7 g. mixed IA-II in Er.O. the Calls flow continued 9 hrs., 20 g. Nrt.Cl added, and the mixt. allowed to stand oversight; treatment with ILO and extr. with II-O gave 2 g. I-cthynyl-lamethyd-methoxy-a*-actahydro-I-maphthel (III), m. 123-3.5° (from CHCls). The mother liquor gave 6 g. mixed III and its 7-MFO isomer, is 119-21°, n. 21.2503. The use of K or II laiked to give better results. Shaking III in Et.O Shrs. with 8% HCl gave 100% I-cthynyl-Sa-methyl-I-hydroxydeahydro-B-mapkthalenone (IV)—iii. 150-6°. To 17 g. Na in 850 ml. liquid NI4 was added 40. C.H. in I hr., and, with a reduced rate of C-H; flow, the mixt. was treated with 80 g. mixed IA-II in 250 ml. Et.O. the passage of C-H; continued 6 hrs., and the mixt. kept overnight at -70°, treated with C-H, 5 hrs., allowed to evap-4; the residue, after addin of Et.O. was treated with ice H₂O, and the conoding, layer treated with 100 ml. 1% HCl and stirred 3 hrs., yielding 34-9 g. IV, m. 158° (from EtOH); the residue (13-16 g.) was a mixt. of the 2 substances, b., 134-6°, n. 9 1.529). Hydrogenation of IV over P(O, in EtOH gave the I-H) analog, m. 127-8°; the other knower similarly gave I-cthyl-da-methyl-I-hydroxydeeahydro-7-nephthalenone, m. 86°. Hydrogenation of IV over P(O, in EtOH gave the I-H) analog, m. 127-8°; the other knower similarly gave I-cthyl-da-methyl-I-hydroxydeeahydro-7-nephthalenoneme, m. 86°. Hydrogenation of IV over P(O, in EtOH gave the I-H) analog, m. 127-8°; the other knower similarly gave I-cthyl-da-methyl-I-hydroxydeeahydro-7-nephthalenoneme (V), m. 144-15°, crystd. rapidiy. Dehydration of these over

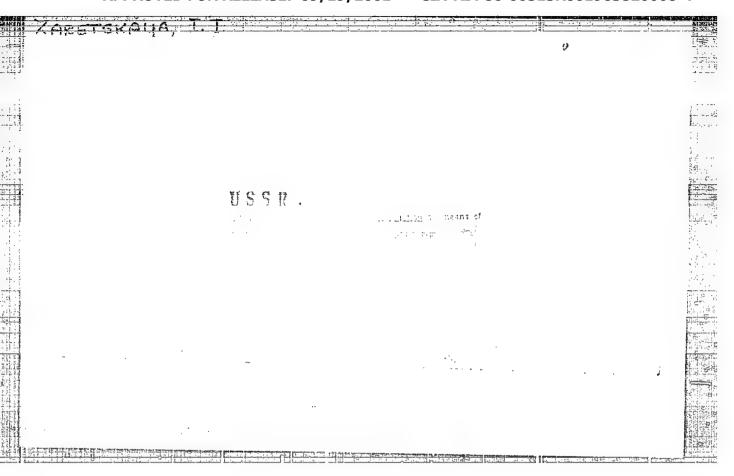
K41804 in the presence of pyrogallo at 140.5°/40-5 nm. gave, resp. 67% Leinyl-8g-nethyl-\$1-tahydro-G-naphtholenome (VI), b. 114-17°, b. 100-3°, n. 15260, dg. 1.022 [senicarbatore, r., 174.4-6.0° [from E167]]), 224 74% Leinyl-8g-nethyl-2d-exchipter-7-naphtholenom (VI), b. 21.6°, n. 15770 (senicarbatore, m. 195-7). Hydrogenation of mixed IV and its 7-oxo isomer over bil gave some 21% V. and dehidration of the residue gavi 40% mixed VI-VII. VI reacted spontaneously with malcia anhydride and treatment of the product with ale, an, KOI, followed by achidication, favo the previously described disarboxylic acid (VIII), n. 230-2.5°, VII similarly two the disarboxylic acid (F), decomp. 2015, becoming transparent only at 210°. V (2 g.), 10 ml. MePh. and 0.05 g. powd. KOII

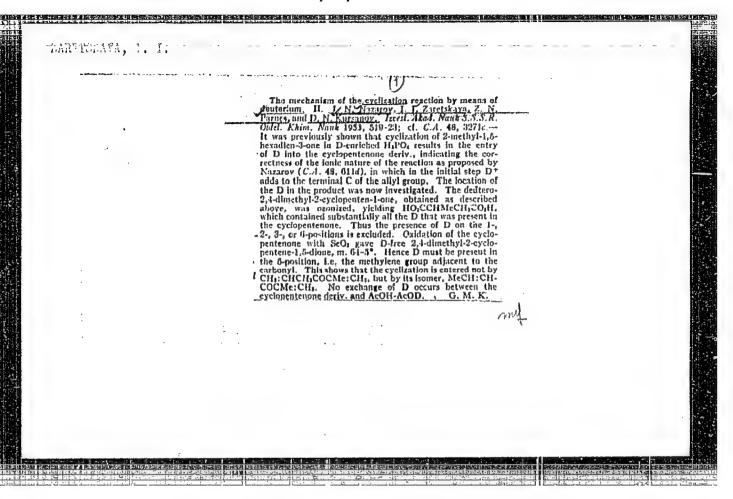
heated 0.5 t. at 110° gave C.H. and a trace of Sa-methyl-1.6 discreded hydronaphikaline, m. 61-2°. To McMgBr (from 13 g. 18 18) was added in 10 min. at 5-10° 5 g. VI and the mixt t fluxed 5 min.; after discoupp, with ice and 20% HCl, th 1.5. layer gave 90% 1-0 syl-6.8a-dimethyl-1.0ctahydro-6-ne k-hol (X), b4. 91-4°, n. 1. 1.5260. Similarly was obtained 37% 1-stanyl-7.6a-dimethyl-1.5260. Similarly was obtained 37% 1-stanyl-7.6a-dimethyl-1.5ctahydro-7-naphihal (XI) 102-6°, n. 1.1.233 Dehydrailon over KHSO, in the 1-senee of pyrogaliol it 140-50°/45 mm; gave, resp., 66 § 1-tinyl-6.8a-dimethyl-1.44-kexahydronaphihalene (XII), b. 1.2°, n. 1.5240. di 0.940, and 1-vinyl-7.6a-dimethyl-1.44-kexahydronaphihalene (XIII), b. 1.62-0. (6.8 g.) heated with 15 g. di-Mc maleste 6 hrs. at 100° bllowed by removil of unused exter in 1.











ZARETSKAYA, III.

Card 1/1 : Pub. 40 - 18/22

Authora : Mazarov, I. N.; Zaretskaya, I. I.; Verkholetova, G. P.; and Torgov,

Fitta : Synthesis of steroid compounds and their substances. Part 19.-

Periodical : Izv. AN SSSR. Otd. khim. nauk 5, 920-928, Sep-Oct 1953

Abstract: The realization of a complete synthesis of D-homostaroid diketones of the cis-cis series (with keto-group in position 15), through the condensation of 1-viny1-9-methy1-Δ1-6-octalone with 1-methy1-Δ1-cyclo-hexene-6-one, is described. The four isomeric tetricyclic ketones, formed as result of condensation and their physico-chemical properties, are also described. The displacement of the double bond from positions 9 to 11 and 8 to 9 was observed during the process of diene condensation. By reducing the steroid ketones, according to the Clemmens method, only the keto-group in the A-ring is eliminated and diketone converts into 15-monoketone. Eight references: 4-USSM; 2-USA and 2-German

(1929-1953).
Institution: Academy of Sciences, USSR, Institute of Organic Chemistry

Submitted : October 7, 1952

ZARETSKAYA, II. USBN/Chemistry - Synthesis Card 1/1 | Pub. 40 - 19/22 Authors Mazarov, I. N.; Verkholetova, G. P.; Torgov, I. V.; and Ananchenko, S. N. Title * Synthesis of steroid compounds and their substances. Part 20. -Periodical. 1 Isv. AN SSSR. Otd. khim. nauk 5, 929-940, Sep-Oct 1983 Abstract The synthesis of steroid diketones of the cis-cis series is described. The formation of three isomeric diketones, two of which have an invested structure and are distinguished by a spatial position of substitutes, is explained. The products derived from the condensation of 1-vinyl-9-methyl- Δ 1-6-octalone with Δ 1-cyclopentenone and with 1,3-dimethyl- Δ 1cyclopentene-4,5-dione and their characteristics, and described. Kine references: 7-USSR and 2-USA (1935-1953). Institution : Academy of Sciences USSR, Institute of Organic Chemistry Submitted : October 7, 1952

